

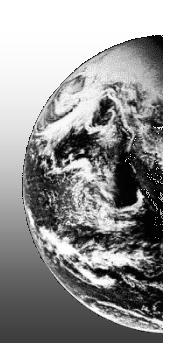
John W. Douglass President & CEO

NDIA

National Summit On U.S. Defense Policy

Long Beach, California

March 27, 2001

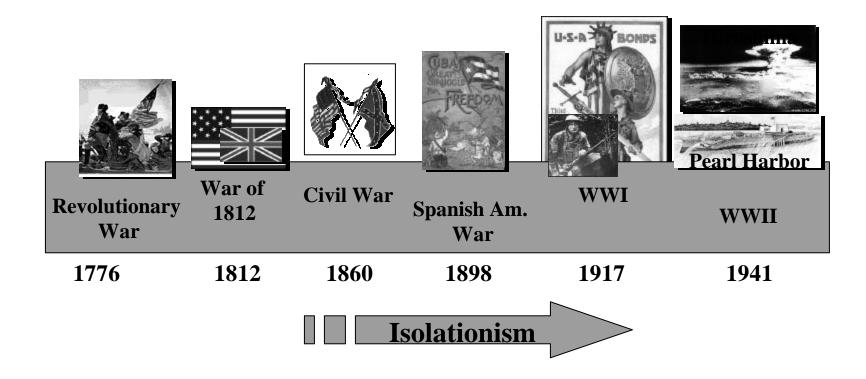


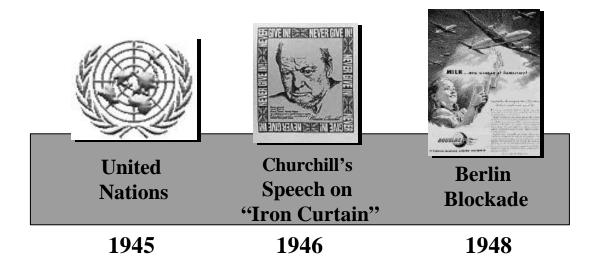
Discussion

- Paradigm Lost
- DoD's New Role
- Challenge to America's Leadership in a New Environment

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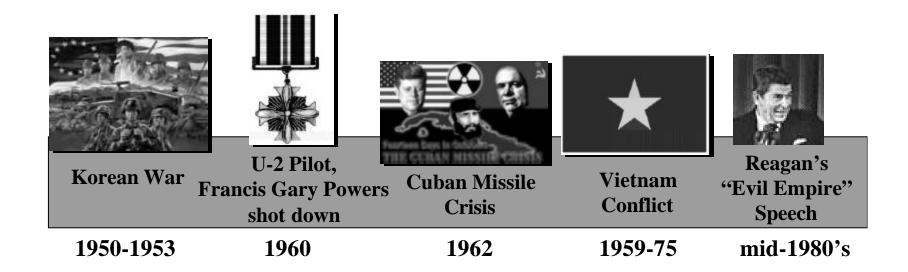




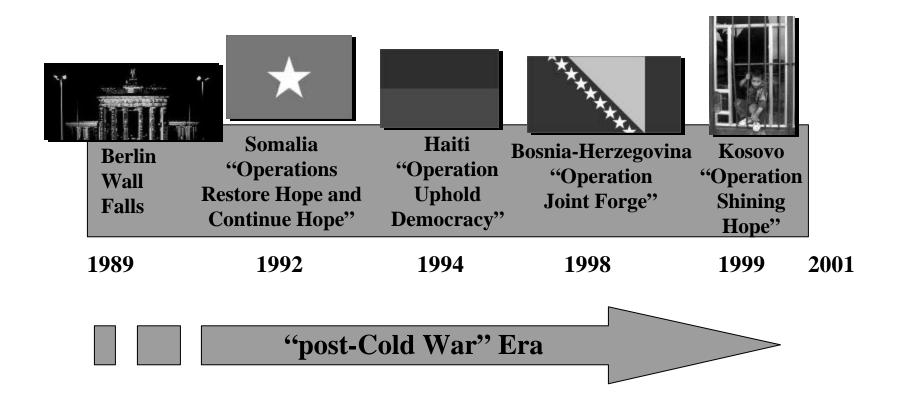


"Cold War" Era









...domestic terrorism... international terrorism... failed nation states...
...global health degeneration...famine...
...peacekeeping...peacemaking...
...humanitarian aid

Isolationism Pax Americana

America accepts responsibility for security of the world ("hegemony")

The great debate...
What role, if any, does/should the U.S. military play today?

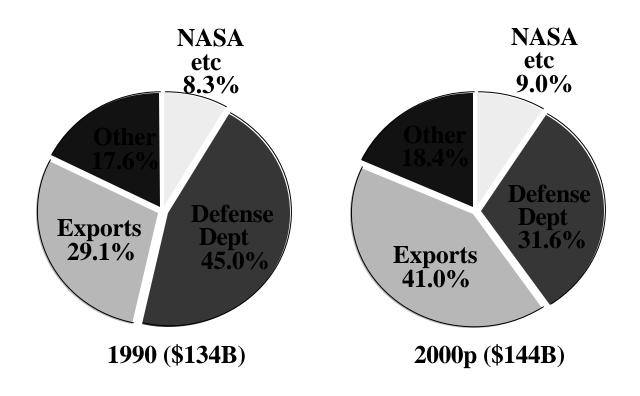
Ad Hoc Paradigm?

We may be in for a long transition to a new paradigm.

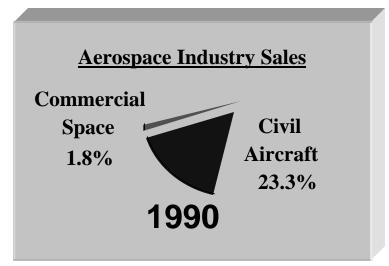
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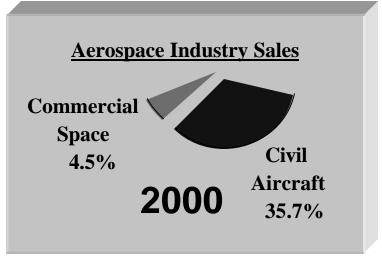
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U.S. Aerospace Industry Sales



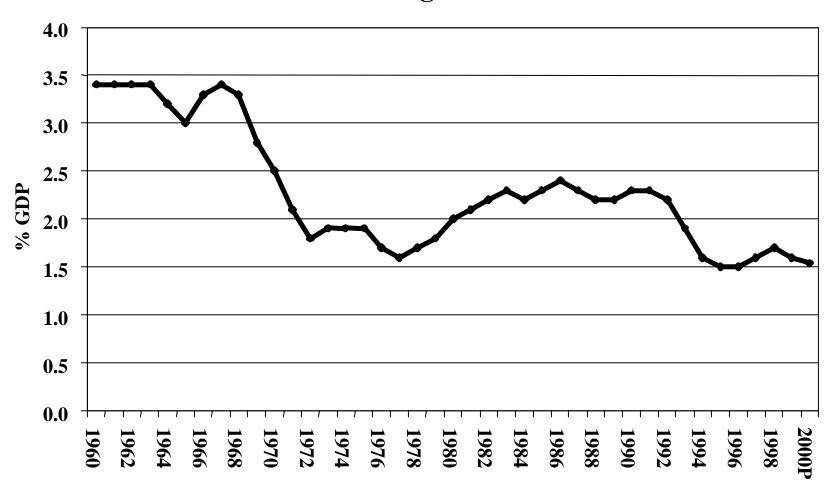
Change In Business Base





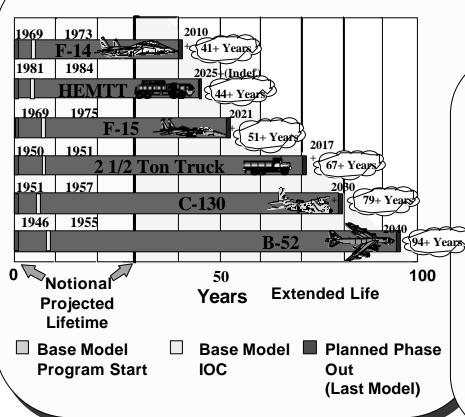
Aerospace Industry Sales

as Percentage of GDP





A Looming Crisis?

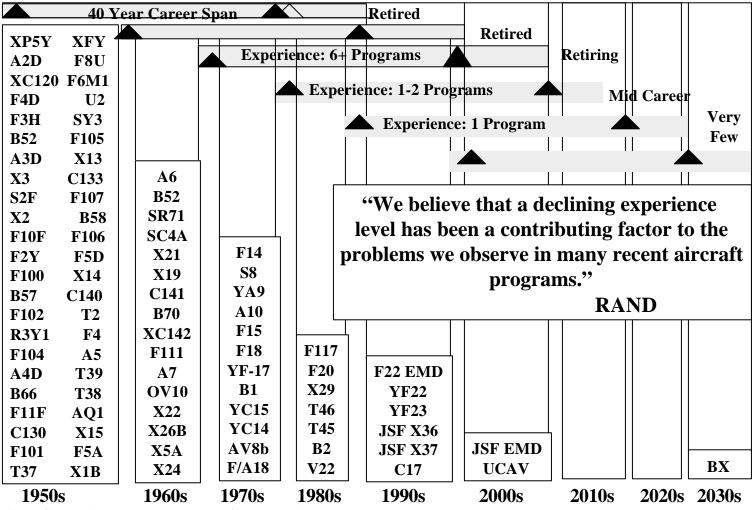


- Deferred modernization leading to an aging fleet in fixed budget environment.
- We are on our 3rd or 4th generation of equipment operators.
- Operation and maintenance of this aging fleet consumes over \$80 Billion per year.
- We're choking off resources for modernization.

Declining Experience Levels

Military Aircraft Programs

Vertical Bars: Military Aircraft Program Starts



Ref: RAND Study (chart by Northrop Grumman)

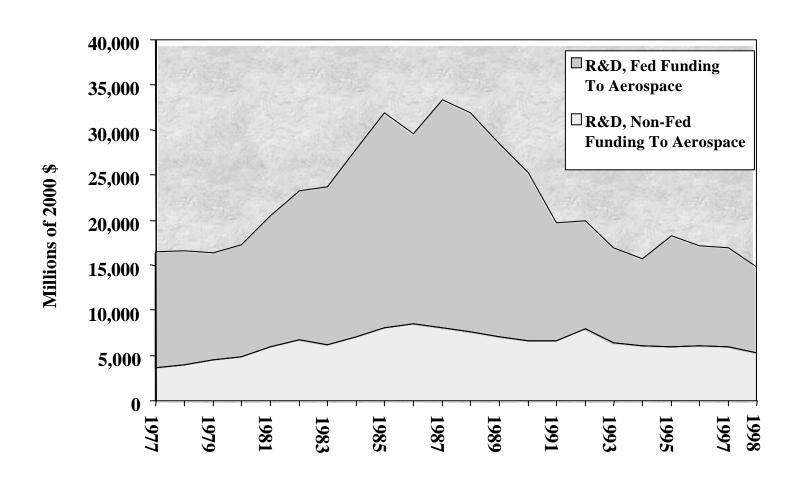
Implications

- We look at export licensing differently
- DoD must learn how to rapidly adopt commercial technology
- DoD must learn how to inject new technology into old systems

Discussion

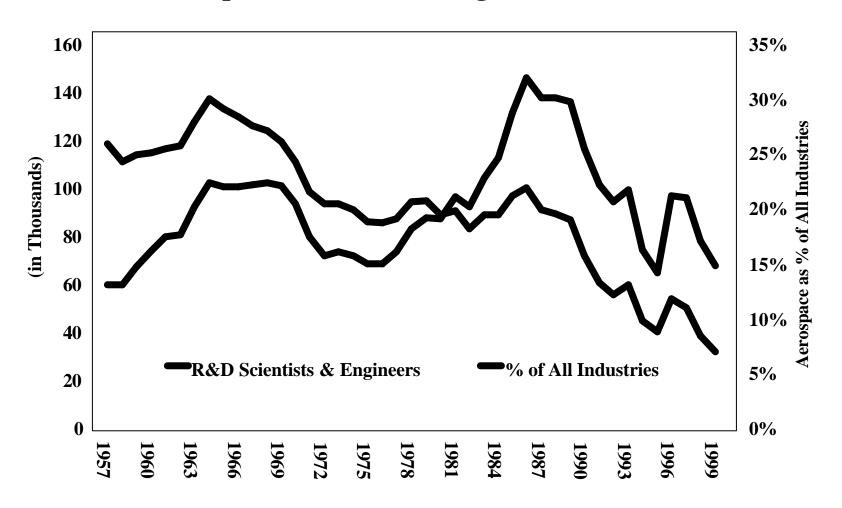
- Paradigm Lost
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- Challenges to America's Leadership in a New Environment

Aerospace R&D Funding



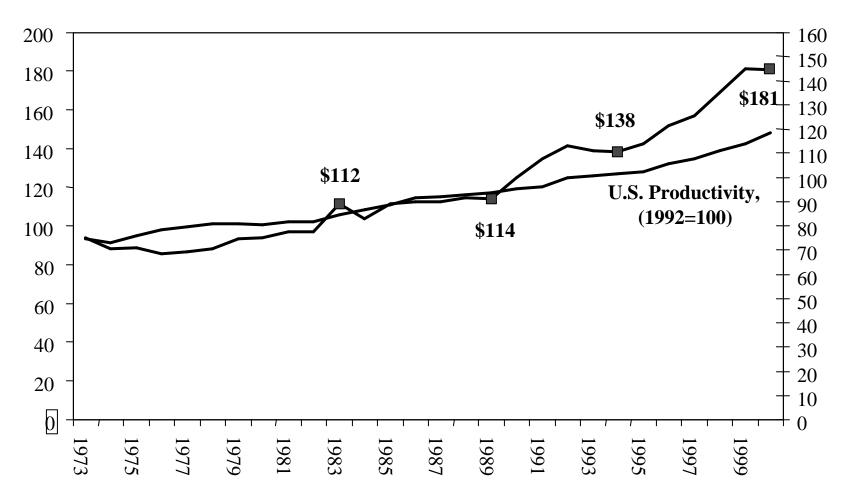
R&D Scientists & Engineers Employment

in Aerospace and as Percentage of All Industries



U.S. Aerospace Industry Sales per Employee

(in billions of constant dollars)



Challenges - Military/Industry

- US military casualty aversion
- US civilian casualty aversion
- Concern about infrastructure
- Low tolerance for long conflict
- Need for rapid reaction
- Need for allied participation

Challenges - Commercial

- Increasing demand for passenger and freight capacity
- Severe hub saturation
- Demand for greater safety
- Increasing concern for ecology issues (noise/pollution)
- US/European trade issues

Today's Trends in Aerospace Industry

- Increasing civil/military integration
- Consolidation of companies at multiple levels driven by market, world economic situation, need to compete with American giants
- Emergence of competing sectors for capital
- Strong erosion of government-sponsored research
- Misconception regarding the government's ability to implement reform
- Primes become systems designers, integrators, final assemblers and after-market supporters

Tomorrow's Revolution in Aerospace

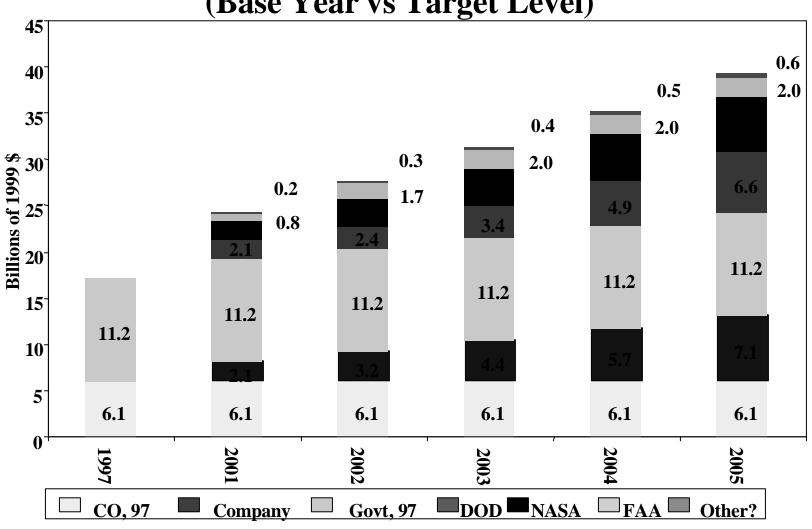
- New ATC systems
- New sensors/communications links w/"big pipes"
- New power sources
- Horizontal takeoff/landing space ships & launch vehicles
- Greater use of automation in the cockpit
- Broadened use of RPVs/UAVs by military

What Does It All Mean?

- Need to produce airplanes already designed
- Need to start the program for the second half of the 21st Century
- Xo atmospheric
- New propulsion systems
- Robotics
- Need more R&D

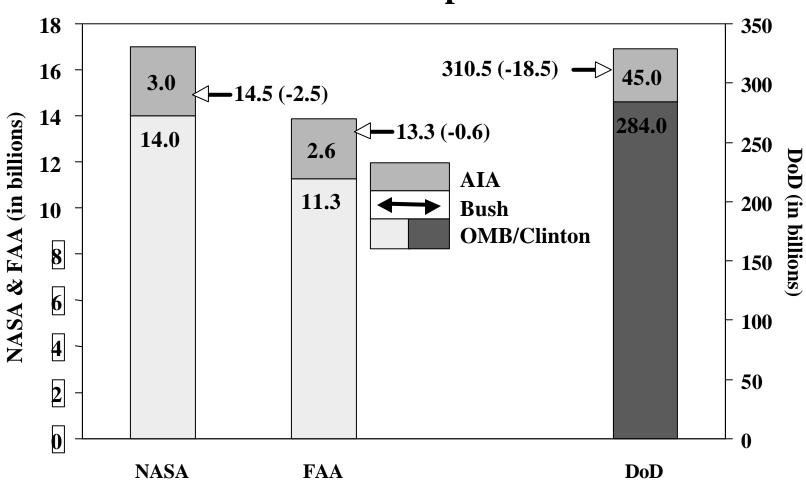
Aerospace R&D Funding

(Base Year vs Target Level)

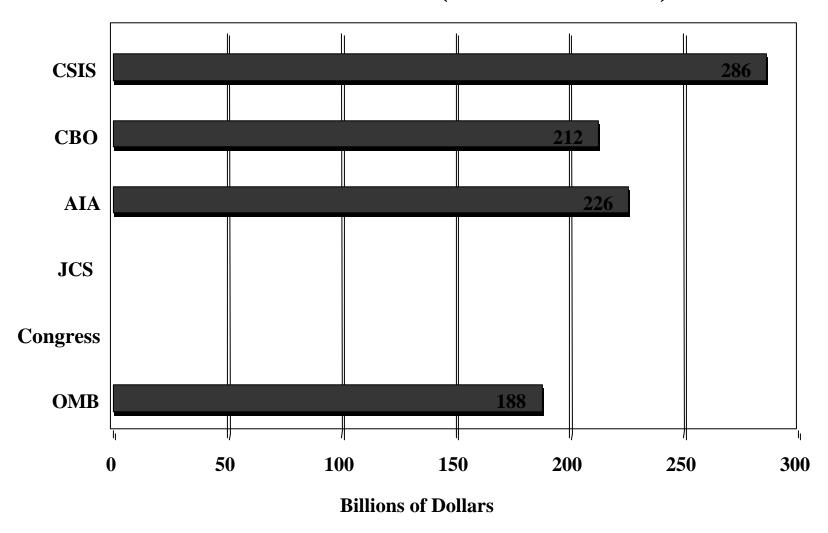


Recommended Increases in FY 2002

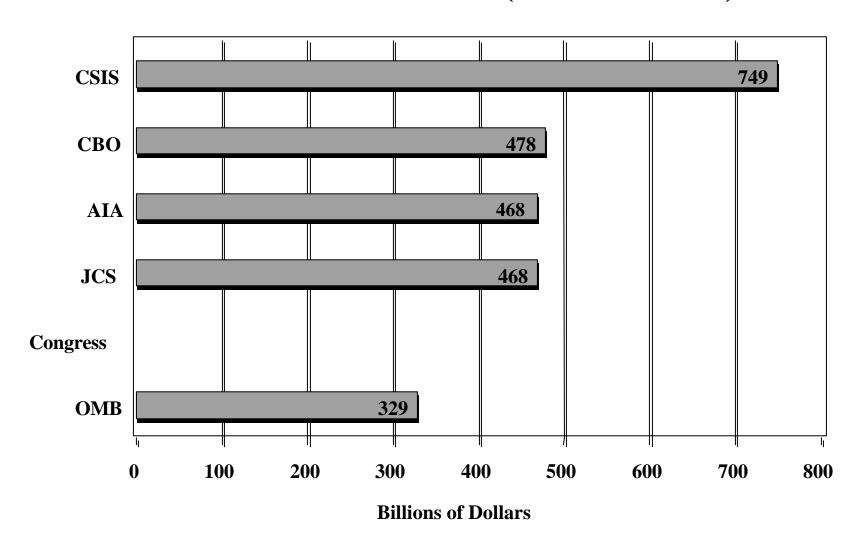
AIA vs. Proposed



DoD RDT&E (FY01-FY05)



DoD Procurement (FY01-FY05)



Presidential Commission on the Future of the Aerospace Industry

Public Law 106-398, SEC. 1092



President appoints 6 Members

House appoints 3 Members

2 by Majority Leader1 by Minority Leader

Senate appoints 3 Members

2 by Majority Leader 1 by Minority Leader

* Signed into law Oct.30; Start date: March 1, '01; Duration: One year

Presidential Commission

Appointees

Robert J. Stevens
President & COO
Lockheed Martin Corporation

William Schneider, Jr.
President, International Planning Services, Inc.
Former Under Secretary of State for Security Assistance,
Science and Technology

The Honorable John J. Hamre President & CEO, Center for Strategic & International Studies Former Deputy Secretary Defense

R. Thomas Buffenbarger (not confirmed)
President, International Association
of Machinists & Aerospace Workers

Presidential Commission on the Future of the Aerospace Industry

Duties

- Study issues relevant to future of U.S. aerospace industry (economic & national security)
- Evaluate effect of laws, regulations, policies, & procedures of the Federal Government on the U.S. aerospace industry
- Study adequacy of projected budgets of Federal agencies for aerospace R&D, procurement, national space launch infrastructure, aerospace science and engineering
- Consider and recommend feasible actions by Federal Government to support robustness of U.S. aerospace industry

Presidential Commission <u>AIA Issues</u>

Budget Process

Acquisition Processes

Financing and Payment of Government Contracts

Trade and Export Statutes and Regulations

U.S. Tax Laws and Practices

National Space Launch Infrastructure

Science and Engineering Education

Civil Aviation

